



PATENT
Attorney Docket No.: 020048-001900US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

SARAF

Application No.: 10/091,693

Filed: 3/4/02

For: METHOD AND APPARATUS FOR
CONTROLLING ULTRASONIC
TRANSDUCER

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-

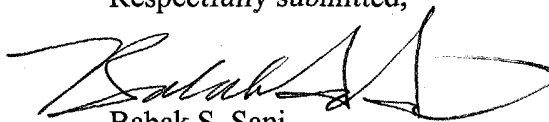
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Application No.: 10/091,693
Page 2

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1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted
Deposit Account.

Respectfully submitted,

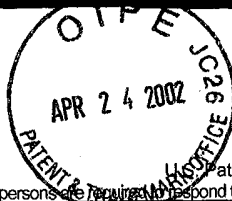
A handwritten signature in black ink, appearing to read 'Babak S. Sani', with a stylized flourish at the end.

Babak S. Sani
Reg. No. 37,495

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SF 1324229 v1

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PTO/SB/08A (08-00)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **1** of **1**

Complete if Known

Application Number	10/091,693
Filing Date	March 4, 2002
First Named Inventor	Saraf, Shailendhar
Group Art Unit	
Examiner Name	
Attorney Docket Number	020048-001900US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	4,277,710		Harwood et al.	07-07-81	
	AB	4,403,176		Cranston	09-06-83	
	AC	4,311,922		Puckette	01-19-82	
	AD	4,445,063		Smith	04-24-84	
	AE	4,525,790		Nakamura	06-25-85	
	AF	4,703,213		Gäsler	10-27-87	
	AG	4,888,565		Littleford et al.	12-19-89	
	AH	4,965,532		Sakurai	10-23-90	
	AI	5,113,116		Wilson	05-12-92	
	AJ	5,394,047		Scharlack et al.	02-28-95	
	AK	5,373,212		Beau	12-13-94	
	AL	5,447,509		Mills et al.	09-05-95	
	AM	5,472,079		Yagi et al.	12-05-95	
	AN	5,635,619		Upda et al.	06-03-97	
	AO	5,735,280		Sherman et al.	04-07-98	
	AP	5,880,580		Johansen	03-09-99	
	AQ	5,777,860		Halbert	07-07-98	
	AR	5,895,997		Puskas et al.	04-20-99	
	AS	5,897,569		Kellogg et al.	04-27-99	
	AT	5,900,690		Gipson et al.	05-04-99	
	AU	6,188,186 B1		Kong et al.	02-13-01	

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	AV		WO 98/53508		Weng et al.	11-26-98		

Examiner
Signature

Date
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US98/10282

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :H01L 41/08

US CL :310/313r, 314, 316, 317, 319 364/481,484

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 310/313r, 314, 316, 317, 319 364/481,484

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS, Derwent

transducer, frequency control, voltage, piezoelectric, feedback, phased lock loop

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,954,960 A (LO et al) 04 September 1990 (04/09/90), entire document	1-5, 8-12
Y	US 5,394,047 A (Scharlack et al) 28 February 1995 (28/02/95), see entire document, especially col. 3, lines 2-65.	6-7



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*Z* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

02 SEPTEMBER 1998

Date of mailing of the international search report

26 OCT 1998

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

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Authorized officer

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